

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Listing of the Claims**

Claims 1-86 (Canceled)

87. (Currently amended) A method of dynamically configuring and optimizing a multimedia conference session, said method comprising:

providing a plurality of services, including a presence service, an authentication service, a primary service, a feature service, and conference service, to be used in a multimedia conference session, wherein each of the plurality of services is hosted by and independently executable through at least one service endpoint in a communications network;

enabling a plurality of users to participate in the multimedia conference session, wherein each user participates in the conference session through at least one respective user endpoint or at least one key value pair in the communications network, wherein each of the at least one respective user endpoints or the at least one key value pairs is hosted by and independently executable through at least one service endpoint;

receiving a request to initiate the multimedia conference session;

in response to the session initiation request, establishing the multimedia conference session via the steps of:

(a) identifying respective user endpoints or plurality key value pairs for each of the plurality of users participating in the session;

(b) identifying and verifying a subset of services selected from the plurality of the services for the conference session and respective service endpoints associated with each of the subset of services in the communications network; and

(c) defining a message routing mesh comprising all of the user endpoints or plurality key value pairs and service endpoints identified in (a) and (b);

wherein resources for establishing the multimedia conference are distributed among the plurality of service endpoints, wherein the resources are a ~~function~~ an instance of a conference logging service that is located via a presence service, wherein the conference logging service publishes its presence with the presence service, wherein the presence service removes a pending presence entry of the conference logging service and replaces it with an actual presence entry;

routing messages between any of the user and service endpoints in the message routing mesh during real-time performance of the conference session;

updating the multimedia conference session with a newly selected service from the plurality of the services; and

in response to the newly selected service, identifying a particular service endpoint or value pairs associated with the newly selected service and including the particular service endpoint into the message routing mesh.

88. (Cancelled).

89. (Previously Presented) The method of Claim 87, wherein the step of establishing the conference session further comprises:

creating a temporary conference endpoint corresponding to the conference session; and  
including the temporary conference endpoint into the message routing mesh.

90. (Previously Presented) The method of Claim 87, wherein the step of routing messages between any of the user and service endpoints in the message routing mesh further comprises routing messages from a source endpoint to a destination endpoint directly in the domain of the service endpoint and outside of the domain.

91. (Previously Presented) The method of Claim 87, wherein the step of routing messages between any of the user and service endpoints in the message routing mesh further comprises

routing messages from a source endpoint to a destination endpoint via an intermediate service endpoint in the communications network.

92. (Previously Presented) The method of Claim 87, further comprising creating an additional user or service endpoint by installing and executing a software program on a computing platform connected to the communications network.

93. (Previously Presented) The method of Claim 92, wherein the additional user endpoint or service endpoint is immediately available for communication with any existing endpoints in the conference session.

94. (Previously Presented) The method of Claim 87, wherein a particular service is available simultaneously via more than one service endpoint so that identifying a service endpoint associated with said particular service further comprises determining a most suitable service endpoint from all service endpoints associated with said particular service pursuant to pre-defined protocols.

95. (Currently amended) A collaborative communication system configured to conduct multiple multimedia conference sessions simultaneously, wherein each conference session is dynamically configurable, said system comprising:

a plurality of endpoints in a communications network or plurality key value pairs, said plurality of endpoints or plurality key value pairs comprising at least a first group of endpoints or a first group of key value pairs involved in a first multimedia conference session and a second group of endpoints or a second group of key value pairs involved in a second multimedia conference session; and

a plurality of services, including a presence service, an authentication service, a primary service, feature service and conference service, wherein each service is provided by at least one of a plurality of service endpoints and each one of the plurality of endpoints or plurality key value pairs having at least one of the plurality of services endpoints associated with the at least

one of said plurality of endpoints, distributed over the communications network, wherein the services are ~~a function~~ an instance of a conference logging service that is located via the presence service, wherein the conference logging service publishes its presence with the presence service, wherein the presence service removes a pending presence entry of the conference logging service and replaces it with an actual presence entry;

wherein,

the first multimedia conference session is initiated from a first endpoint or first key value pair in the first group of endpoints or a first group of key value pairs, the first group of endpoints or a first group of key value pairs establishing a first message routing mesh so as to render the first conference session dynamically configurable,

the second multimedia conference session is initiated from a second endpoint or second key value pairs in the second group of endpoints or a second group of key value pairs, the second group of endpoints or a second group of key value pairs establishing a second message routing mesh so as to render the second conference session dynamically configurable,

the first and second multimedia conference sessions are conducted simultaneously, and  
the first and second message routing meshes contains service endpoints in common.

96. (Previously Presented) The system of Claim 95, wherein at least one of the plurality of services is a media service providing at least one of an audio feature, a video feature or a graphic feature.

97. (Previously Presented) The system of Claim 95, wherein at least one of the plurality of services is a control service providing at least one of a presence feature, an authentication feature, or an endpoint locator feature.

98. (Currently amended) A collaborative communication system configured to conduct multiple multimedia conference sessions simultaneously, wherein the system is dynamically configurable and expandable, said system comprising:

a plurality of endpoints or plurality key value pairs in a communications network; and

a plurality of services, including a presence service, an authentication service, a primary service, feature service and conference service, for conducting a multimedia conference session, wherein each service is provided by at least one of a plurality of service endpoints distributed over the communications network, wherein the services are ~~a function~~ an instance of a conference logging service that is located via a presence service, wherein the conference logging service publishes its presence with the presence service, wherein the presence service removes a pending presence entry of the conference logging service and replaces it with an actual presence entry;

wherein, each of the multiple multimedia conference sessions is configured dynamically by adding or deleting any one of the plurality of endpoints in a message routing mesh associated with the conference session, and

wherein, the collaborative communication system can be expanded by adding additional services and associated service endpoints into the plurality of service endpoints.

99. (Previously Presented) The system of Claim 98, wherein each additional service and associated endpoint is added during any of the conference sessions without modification to any existing services or endpoints in the communications network.

100. (Previously Presented) The system of Claim 98, wherein each additional service and associated endpoint is added by installing and executing a software application on the endpoint, said software application relating to the service and accessible from a computing platform connected to the communications network.

101. (Previously Presented) The system of Claim 98, wherein at least one service and associated endpoint provides customized service instances pursuant to one or more specific subscriptions by users participating in each multimedia conference session.

102. (Previously Presented) The system of Claim 101, wherein the customized service instances comprise at least one service instance reflecting a pre-subscribed security degree.

103. (Previously Presented) The system of Claim 101, wherein the customized service instances comprise at least one service instance reflecting a pre-subscribed audio quality.

104. (Previously Presented) The system of Claim 101, wherein the customized service instances comprise at least one service instance reflecting a pre-subscribed video quality.